

X. APPENDIX

Current claims:

1. Goggles for isolation of a user's eyes from the outside environment comprising:
a frame including a transparent portion adapted to cover at least one of the user's eyes; and
a sealing pad adjacent to the frame, said sealing pad comprising a compliant and resiliently deformable gelatinous elastomer suitable to conform under pressure to form a substantially airtight seal between the frame and at least a portion of the user's face adjacent to the sealing pad.
2. The goggles of Claim 1, wherein the gelatinous elastomer is sufficiently compliant that at least one compressive pressure of between approximately 100 grams per square inch and approximately 3500 grams per square inch applied to the top surface of a thin strip of the gelatinous elastomer will compress the height of the strip by approximately 25% of the height of the strip.
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. The goggles of Claim 2, wherein pliability of the sealing pad varies between the frame and the user's face.

14. The goggles of Claim 13, wherein the sealing pad is more pliable near the user's face than it is near the frame.

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. Goggles for isolation of the user's eyes from the outside environment comprising:

a frame including a transparent portion adapted to cover the user's eyes;

a sealing pad adjacent to the frame, said sealing pad comprising a compliant and resiliently deformable gelatinous elastomer suitable to conform under pressure to form a substantially airtight seal between the frame and the user's face;

wherein the gelatinous elastomer is a synthetic polymer gel of the type used in the Kitecko Ultrasound Standoff Pad manufactured by 3M Corporation of St. Paul, Minnesota;

wherein each gelatinous elastomer is sufficiently compliant that when a compressive pressure of approximately 100 grams per square inch and approximately 3500 grams per square inch is applied to the top surface of a thin strip of the gelatinous elastomer, the height of the strip can be compressed by approximately 25 percent of the height of the strip; and

further comprising a thin, distortable toroidal membrane having a smooth and regular surface which encloses the entire sealing pad in an airtight manner.

38. The goggles of Claim 1, wherein the gelatinous elastomer is a synthetic polymer gel.

39. (Cancelled)

40. The goggles of Claim 1, wherein the gelatinous elastomer is sufficiently compliant that when a compressive pressure of approximately 380 grams per square inch is applied to the top surface of a thin strip of the gelatinous elastomer, the height of the strip can be compressed by approximately 25 percent of the height of the strip.

41. The goggles of Claim 1, wherein the sealing pad is sufficiently tacky to adhere to the user's face and form an airtight seal between the user's face and the frame without continuous application of pressure to the frame.

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)
47. (Cancelled)
48. The goggles of Claim 1, wherein pliability of the sealing pad varies between the frame and the user's face.
49. The goggles of Claim 48, wherein the sealing pad is more pliable near the user's face than it is near the frame.
50. The goggles of Claim 1, further comprising a thin distortable membrane having a smooth and regular external surface covering at least a portion of the gelatinous elastomer.
51. (Cancelled)
52. (Cancelled)
53. (Cancelled)
54. (Cancelled)
55. (Cancelled)
56. (Cancelled)
57. (Cancelled)
58. The goggles of Claim 1, wherein the sealing pad is permanently attached to the frame.
59. The goggles of Claim 1, further comprising an attachment means for removable attachment of the sealing pad to the frame.
60. The goggles of Claim 1, wherein the sealing pad is designed to conform to the orbits of the user's eyes.
61. The goggles of Claim 1, wherein the frame is sized to fit outside the orbits of the user's eyes.
62. The goggles of Claim 1, wherein the frame is flexible and conforms generally to the shape of the user's face.

63. The goggles of Claim 62, wherein the frame consists of a thin sheet of transparent material.
64. The goggles of Claim 1, wherein the gelatinous elastomer is a silicone gel.
65. The goggles of Claim 1, wherein the gelatinous elastomer is a urethane gel.

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